

Title (en)
Torque detecting apparatus

Title (de)
Drehmomentmessvorrichtung

Title (fr)
Appareil de détection de couple

Publication
EP 1684058 A2 20060726 (EN)

Application
EP 06290124 A 20060118

Priority
JP 2005012999 A 20050120

Abstract (en)
In a torque detecting apparatus, in each of two flux concentrating rings, a portion along a circumferential direction is raised outward in a radial direction so that a flux concentrating section is provided that has a plate shape extending on one side in an axial direction. These flux concentrating rings are fixedly arranged such that the flux concentrating sections should oppose to each other in the circumferential direction with a predetermined gap in between. Leakage flux between opposing surfaces of the flux concentrating sections is detected by magnetic sensors aligned in an axial direction between these opposing surfaces. This improves the utilization of materials for the flux concentrating rings including the flux concentrating sections, and hence reduces the product cost.

IPC 8 full level
G01L 3/10 (2006.01); **G01L 5/22** (2006.01)

CPC (source: EP US)
G01L 3/104 (2013.01 - EP US)

Citation (applicant)
JP 2003149062 A 20030521 - DENSO CORP, et al

Cited by
EP2107355A3; WO2023030616A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1684058 A2 20060726; EP 1684058 A3 20070905; EP 1684058 B1 20100721; DE 602006015548 D1 20100902;
JP 2006201033 A 20060803; JP 4812303 B2 20111109; US 2006156834 A1 20060720; US 7293472 B2 20071113

DOCDB simple family (application)
EP 06290124 A 20060118; DE 602006015548 T 20060118; JP 2005012999 A 20050120; US 33271406 A 20060113